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DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON 25, D. C.

IN REPLY REFER TO
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28 September 1954

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MEMORANDUM FOR: Mr. Paul A. Borel
Deputy Assistant Director
National Estimates

Subj: ONI Footnote to Tables 5 and 6, NIE 11-4-54

1. Attached is three copies of ONI footnote to tables 5 and 6, NIE 11-4-54. It is requested that the footnote be applied as indicated in copy of tables also attached.
2. This memorandum may be downgraded to CONFIDENTIAL upon removal of attachments.

B. E. Wiggins
B. E. WIGGIN
Captain, U. S. Navy
Head of Estimates Branch
Office of Naval Intelligence

Review of this document by CIA has
determined that

- ☐ CIA has no objection to declass
- ☐ It contains information of CIA
interest that must remain
classified at TS S (C)
Authority: HR 70-2
- ☐ It contains nothing of CIA interest

Date 7 MAY 1981 Reviewer 018557

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ONI FOOTNOTE TO TABLES 5 AND 6 OF NIE 11-4-54 AS APPLIED TO
TYPE 39 AND TYPE 37 AIRCRAFT

* The Director of Naval Intelligence believes that the operating performance capabilities of these aircraft could be approximately as indicated. However, he desires to note that these data are based primarily on in-flight photographs and a series of assumptions. Therefore, they may be subject to some revision, either upwards or downwards, as more substantial direct evidence becomes available.

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NIE 11-4-54

13 September 1954

TABLE 5ESTIMATED 1954-1957 CAPABILITIES OF SOVIET LONG-RANGE
AIRCRAFT(Calculated in accordance with U.S. Military
Mission profiles)

<u>Conditions</u>	<u>Medium Bomber</u>		<u>Heavy Bomber</u>	
	<u>TU-4</u>	<u>TU-4 (Modified)</u>	<u>Type 39</u>	<u>Type 37 (1957)</u>
<u>Combat Radius/ Range (nm)</u>				
a. 10,000 lb. Load one refueling	1700/3100 2400/4300	2000/3600 2800/5000	1500/2900 2100/4000	2750/5300 3800/7300
b. 3,000 lb. load one refueling	1950/3500 2750/4900	2300/4100 3200/5700	1700/3300 2400/4600	2850/5500 3900/7500
<u>Speed/Altitude (kn/ft)</u>				
a. Maximum speed	350/30,000	360/30,000	535/15,000	535/19,000
b. Com. speed	350/30,000	360/30,000	475/41,000	475/44,500
<u>Combat Ceiling*</u> (ft)	36,500	37,500	43,500	48,000

* The altitude at which a rate of climb of 500 ft/min can be maintained at the end of the given combat radius of the aircraft.

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TABLE 6

ESTIMATED 1954-1957 MAXIMUM PERFORMANCE UNDER COMBAT CONDITIONS OF
SOVIET LONG-RANGE AIRCRAFT

<u>Conditions</u>	<u>Medium Bomber</u>			<u>Heavy Bomber (1957)</u>
	<u>TU-4</u>	<u>TU-4 (Modified)</u>	<u>Type 39</u>	<u>Type 37</u> *
<u>Combat Radius/</u> <u>Range (MM)</u>				
a. 10,000 lb. load	1800/3300	2150/4000	1600/3100	3100/6100
One refueling	2500/4500	3000/5600	2200/4300	4300/8100
b. 3,000 lb. load	2050/3700	2450/4600	1850/3700	3200/6400
One refueling	2850/5100	3450/6450	2550/5000	4300/8200
<u>Speed/Altitude</u> <u>(kn/ft)</u>				
a. Maxi. speed	350/30,000	360/30,000	535/15,000	535/19,000
b. Com. speed	350/30,000	360/30,000	475/42,000	475/45,500
<u>Combat Ceiling</u> <u>(ft)</u>	36,500	37,500	43,500	48,000

Estimated

Maximum target altitudes (100 ft/min. rate of climb) for the Type 37 and Type 39 aircraft on one-way missions, one hour fuel remaining, bombload aboard and with maximum power, are as follows:

<u>Type 37</u> *		<u>Type 39</u> *	
<u>Bombload (lbs.)</u>	<u>Altitude (ft.)</u>	<u>Bombload (lbs.)</u>	<u>Altitude (ft.)</u>
20,000	55,100	10,000	49,700
10,000	56,300	3,000	51,100
3,000	57,200		

* on foot

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